

1. 00308-67 ENT(m)/EMP(j) TJP(c) RM/VW  
ACC NR: AP6023946

SOURCE CODE: UR/0233/65/000/006/0034/0038  
//0

AUTHOR: Kerimov, K. A.; Teymurov, F. D.

ORG: none

TITLE: Investigation of viscous-elastic-plastic properties of polymer materials subjected to transverse impact

SOURCE: AN AzerbSSR. Izv. Ser fiz-tekhn i matem n, no. 6, 1965, 34-38

TOPIC TAGS: polymer, caprone, polyvinyl chloride, solid viscosity, elastic wave, plasticity

ABSTRACT: This is a continuation of earlier dynamic tests on polymer materials (rubber, caprone, polyvinyl) (Tr. Vsesoyuznogo simpoziuma po rasprostraneniyu uprugoplasticheskikh voln v sploshnykh sredakh, Baku, 1964 and elsewhere) where a model was proposed, unifying the elastic-plastic and viscous properties of polymers. This model is used to develop a procedure for the investigation of polymers with viscous-elastic-plastic properties by using transverse impact. This method is based on knowledge of the time dependence of the tension, obtained by recording tension waves reflected from the points where the sample is secured, and integrating the corresponding equations with the aid of an electronic digital computer. The individual functions involved in this model, expressing the viscous and elastic-plastic properties of the polymer, can

Card 1/2

L 09308-67

ACC NR: AP6023946

also be determined from the solution. Results of an experimental determination of the mechanical properties of polyvinyl and caprone threads agree well with the calculations. Orig. art. has: 3 figures and 5 formulas.

SUB CODE: 20// SUBM DATE: 00// ORIG REF: 003

Card 2/2

USSR / Soil Science. Soil Genesis and Geography.

J

Abs Jour: Ref Zhur-Biol., No 2, 1959, 6047.

Author : Teymurov, K.

Inst : Not given.

Title : The Part Played by Transpiration in the Restoration of Salinized Soil.

Orig Pub: Khlopkovodstvo, 1958, No 1, 57-58.

Abstract: No abstract.

Card 1/1

AKHUNDOV, A.K.; TEYMUROV, K.G.

Leaching periods for saline soils with a predominance of sulfate  
and sodium salts. Dokl.AN Azerb.SSR 16 no.10:977-980 '60.

(MIRA 14:1)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut gidrotekh-  
niki i melioratsii.

(Azerbaijan--Saline and alkali soils)

AKHUNDOV, A.K.; TEYMUROV, K.G.

Results obtained from investigating the leaching of heavy  
soils salinized by sodium sulfate. Pochvovedenie no.5:112-  
113 My '60. (MIRA 14:4)  
(Solonchak soils) (Leaching)

TEYMUROV, K.G.

New combined improvement system for forced improvement of solonetz soils and soda-sulfate solonchaks. Dokl. AN Azerb. SSR 17 no. 2:117-140 '61. (MIRA 14:4)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut gidrotekhniki i melioratsii. Predstavleno akademikom AN Azerbaydzhanskoy SSR G.A. Aliyevym.

(Solonetz soils) (Solonchak soils)

L 40247-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l) BC

ACC NR: AP6021376

SOURCE CODE: UR/0423/65/000/012/0012/0013

AUTHOR: Teymuray, V. M.

ORG: Institute of Cybernetics, AN Azerbaydzhan SSR (Institut kibernetiki AN Azerbaydzhanskoy SSR)

TITLE: Industrial operation control model (IOCM)

SOURCE: Za tekhnicheskoy progress, no. 12, 1965, 12-13

TOPIC TAGS: industrial organization, data processing, industrial automation

ABSTRACT: The author describes a method for making a visual operation model (in tabular form) suitable for the analysis, correction, and control of production processes. The model easily provides: critical sequence, subcritical sequence, early completion time, late completion time, alternate sequences, etc. A sample theoretical problem is set up on a scale chart of time columns and horizontal lines representing possible sequences of progression. The chart is formed on a board with cutout slots for each course. A movable slide is used to indicate the stage at the projected time of completion, marked along the time scale at the top. Events may be scaled to a calendar. A data processing group can process information, set up the chart, and provide results to users. Analysts can then take proper steps to insure timely

Card 1/2

UDC: 658.315:35.001.57

L 40247-66

ACC NR: AP6021376

production with the least effort. For complex production items, automation and scale reduction of the chart may be required for successful operation. This work was discussed at a seminar "Industrial Automation - Control" conducted at MGU under the guidance of Prof. Lyusternik, L. A. Orig. art. has: 1 figure and 1 table.

SUB CODE: 13,07/SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 000

Card

2/2/MCP



MARINESKU, G. [Marinescu, G.]; TEYNDEL', K.; PREDESKU, I.; SHTARK, M.;  
KONSTANTINESKU, M.; SANDULESKU, T.

Paralysis of the facial nerve in influenza. Vop. virus 6 no.4: 509-  
510 JI-Ag '61. (MIRA 14:11)

1. Virusologicheskiy institut Akademii Rumynskoy Narodnoy Respubliki  
i kliniki infektsionnykh bolezney "Kolentina", Bukharest.  
(PARALYSIS, FACIAL) (INFLUENZA)

TEYNRIKESDORF, N. G. (Nizhniy Tagil)

"A method of obtaining joinings of pipes of various diameters from stainless steel and the alloy AMts." There was developed the technology of welding and original burning to execute seams inside pipes of small diameter. For the first time there has been achieved joining of pipes from heterogeneous metals, which may work under very rigid conditions.

Report presented at the 1st All-Union Conference on welding of heterogeneous metals, at the Inst of Electric Welding im. Ye. O. Paton, 14-15 June 1963.  
(Reported in Avtomaticheskaya svarka, Kiev, No. 9, Sept 1963, pp 95-96 author, V. R. Ryabov)

JPRS 24,651 19 May 64

TEYROVSKY, V.

SCIENCE

Periodicals: Ceskoslovenska spolecnost entomologicka. CASOPIS. ACTA  
SOCIETATIS ENTOMOLOGICAE CECOSLOVENIAE. Vol. 52, 1955.

TEYROVSKY, V. Studies of the zoogeography and ecology of aquatic insects.  
p. 205.

Monthly List of East European Accessions (EEAI) IC, Vol. 8, No. 5,  
May 1959, Unclass.

TEYROVSKY, Vladimir

Table of waterbug fauna of Silesia. Part 4: Osoblaha area 1951-1961. Prid cas slezsky 23 no.3:289-310 '62.

AYZENBERG, D.M. (Moskva); TEYS, R.V., doktor khim.nauk (Moskva)

Controversy about heavy water. Priroda 55 no.1:108-109  
Ja '66. (MIRA 19:1)

1

Micro-iodometry. P. V. Tels J. Russ. Phys.-Chem. Soc. 62, 801-8 (1930).—  
 Mixts. of KBr, 0.01 N-Iod and an excess of 0.002-0.01 N arsenious acid were titrated  
 with 0.001-0.1 N I<sub>2</sub> in aq. KI. The expl. procedure of Geilmann and Hultje (cf. C. A.  
 22, 302) was followed in general. Similar titrations were also made of Na<sub>2</sub>SO<sub>3</sub> solns.  
 of varying concns. With KI added before the titration (2.7% to arsenious acid mixts.  
 and 4.8% to the Na<sub>2</sub>SO<sub>3</sub> solns), the results checked best with 0.002 N I<sub>2</sub>. In the ab-  
 sence of KI (except small quantities introduced during the titration) the best agreement  
 was obtained with 0.02 N I<sub>2</sub>. H. SOVINSKY

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

STEYS, R.V.

7

Methods for determination of low concentrations of chlorine. V. N. KOLUCHNEVA AND R. V. TRIN. *J. Russ. Phys.-Chem. Soc.* 62, 1957 73(1930) --Various methods for detg. small amts. of Cl<sub>2</sub> are reviewed. The potentiometric method was found to be the most accurate, but for all the purposes of water work control, the colorimetric method is preferable, because of its simplicity. RBA MAIZEL

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

REGION: STEINBERG

REGION: BOWLING

REGION: ONE ONE ONE





TEST AND INSPECTION		PROCESSING AND PROPERTIES INDEX		OTHER INDEXES																																																																																																					
CA		Methods of determining low concentrations. R. V. Tris and O. R. Vagner. <i>J. Gen. Chem. (U. S. S. R.)</i> 4, 1027, 35 (1934); cf. <i>C. A.</i> 20, 1211. - Dil. solns. of acids and bases, ranging from 0.1 to 0.002 N, were titrated by the potentiometric method, with Cu-W electrodes, extreme care having been taken to prevent absorption of $O_2$ from the air by the solns. (Concn. of the titrated soln. was in every case 1/8 the concn. of the titrating soln. With HCl soln. titrated with NaOH, a comparison was made between the potentiometric and indicator methods, with methyl orange as indicator. The potentiometric method gave higher results than the indicator method. Potentiometric titration of mixts. of very dil. soln. of NaOH and $Na_2CO_3$ with HCl gave less satisfactory results.)			7																																																																																																				
S.L. Madorsky																																																																																																									
ASD-51A METALLURGICAL LITERATURE CLASSIFICATION																																																																																																									
<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td><td>51</td><td>52</td><td>53</td><td>54</td><td>55</td><td>56</td><td>57</td><td>58</td><td>59</td><td>60</td><td>61</td><td>62</td><td>63</td><td>64</td><td>65</td><td>66</td><td>67</td><td>68</td><td>69</td><td>70</td><td>71</td><td>72</td><td>73</td><td>74</td><td>75</td><td>76</td><td>77</td><td>78</td><td>79</td><td>80</td><td>81</td><td>82</td><td>83</td><td>84</td><td>85</td><td>86</td><td>87</td><td>88</td><td>89</td><td>90</td><td>91</td><td>92</td><td>93</td><td>94</td><td>95</td><td>96</td><td>97</td><td>98</td><td>99</td><td>100</td> </tr> </table>						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1ST AND 2ND COORDS

3RD AND 4TH COORDS

PROCESSES AND PROPERTIES INDEX

3

EX

Absorption spectra of iodine solutions. A. V. Pamiukov and R. V. Tychan. *J. Gen. Chem.* (U. S. S. R.) 5, 1831-4 (1935). Absorption spectra of 0.00141 N solns. of I in aq. HCl, 0.02, 1 and 2 N, also in aq. H<sub>2</sub>SO<sub>4</sub>, 0, 0.2, 0.4, 1.2, 2 and 4 N, were detd. in the visible range. Application of Beer's law to H<sub>2</sub>SO<sub>4</sub> solns. was verified. Solns. of I in mineral acids were found to be analogous to I solns. in ordinary solvents. Also in *Bull. soc. chim.* [5], 3, 380 Dec (1935). S. L. Madorsky

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND COORDS

3RD AND 4TH COORDS

1ST AND 2ND (ROSET)										3RD AND 4TH (ROSET)									
PROCESSES AND PROPERTIES INDEX																			
<div style="position: relative; height: 150px;"> <span style="position: absolute; top: 0; left: 0; font-size: 2em; font-weight: bold;">BC</span> <span style="position: absolute; top: 0; right: 0; font-size: 1.5em; font-weight: bold;">A-1</span> <span style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-weight: bold;">TEYS, R.V.</span> </div>										<p style="text-align: center;"><b>Absorption spectra of iodine solutions. II.</b></p> <p><b>Influence of iodide.</b> A. V. PANEVLOV and R. V. TEYS. (J. Gen. Chem. Russ., 1938, 6, 588-605).—</p> <p>Progressive dilution of I in KI solutions with aq. KI leads to a shift in the position of the absorption bands and to diminution in intensity of coloration; these changes are reversed by further addition of aq. KI. Similar effects are obtained in presence of starch. Beer's law is followed more closely when the solution is diluted with H<sub>2</sub>O than with aq. KI. The effects are ascribed to the existence of a series of equilibria between I, KI, KI<sub>2</sub>, and H<sub>2</sub>O. R. T.</p>									
ASB-31A METALLURGICAL LITERATURE CLASSIFICATION																			
FROM SYMBOLISM										FROM SYMBOLS									
SYMBOLS										SYMBOLS									
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z										A B C D E F G H I J K L M N O P Q R S T U V W X Y Z									

TEYS, R.V.																									
Common Subjects													Processes and Properties												
MATERIALS													TEST AND ENG. ORDER												
<p>Methods of determining low concentrations. XII.            Colorimetric determination of acetic acid and its salts.            R. V. Teis and E. M. Iudinova-Gol'dfein. <i>J. Applied Chem.</i> (U. S. S. R.) 9, 957-64 (in English 964) (1936);  <i>cf. C. A. 30, 2820P.</i> Spectrophotometric examn. showed</p> <p>that in the detn. of AcOH and its salts with <math>\text{La}(\text{NO}_3)_3</math> and I (Damour, <i>Compt. rend.</i> 43, 970 (1857); <i>Bille, M.</i> 37, 710 (1904)), the intensification of the blue with increasing concn. of AcOH is accompanied by changes in the tint, which interfere with the colorimetric estn. Increasing the La concn. intensifies the color reaction but does not increase its sensitivity. Increasing the <math>\text{NH}_4\text{OH}</math> concn. retards the formation of blue, decreases its intensity and accelerates the pptn. The presence of neutral salts interferes with the detn., because of the lowered color intensity and the pptn. In the presence of foreign salts the detn. can be made at the concn. of 0.35-1.7 mg. AcOH in 1 cc. soln., or at that of 2.5 mg. in 1 cc. by using a larger excess of <math>\text{NH}_4\text{OH}</math>. Chas. Blanc</p>																									
<p>ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																									

2

*Isotopic composition of rain water. R. V. Tels. Comp. rend. acad. sci., U. R. S. S. 23, 694-695 (1959); cf. C. R. 34, 1789. — Analysis of thunderstorm (I) and non-thunderstorm (II) rain indicate that the d. for I is greater than the average d. (Moscow tap water), which is greater than the d. for II. B. C. F. A.*

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

COMMON VARIABLE INDEX

COMMON ELEMENTS

OPEN

MATERIALS INDEX

ASB-ILA METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

RELATION

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

COMMON VARIABLE INDEX

COMMON ELEMENTS

TEYS, R.V.

14

Isotopic composition of water from some rivers and lakes of the U. S. S. R. R.V. Tey, *Compt. rend. Acad. U. R. S. S. 24, 770-82 (1969) (in English)*. A comparison of the densities of water samples taken in different parts of the U. S. S. R., purified by the method of flotation, for the method of density differences ranging from 0 to 2.5 for the rivers and from 2.2 to 0.5 for the lakes. As a rule lake water is denser by 2.5 than river water. The water from the rivers of the Transbaikal region is lighter than that of the other rivers measured. The water of rivers and lakes fed with melting ice and snow has a lower density and cannot be used as a standard for density measurements. A. H. Krapp

AND SEA DETAIL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSING AND PROPERTY NOTES																			
<p>CA</p> <p>TEYS, R.V.</p>										<p>2</p>									
<p>Isotopic composition of snow. R. V. Tels and K. P. Florenskii. <i>Compt. rend. acad. sci. U. R. S. S.</i> 26, 70-4 (1940) (in English).—Values obtained for the d. of freshly fallen snow averaged -2 y. D causes neg., whereas heavy oxygen results in pos., differences in d. The thawing process tends toward the accumulation of D and light oxygen.</p> <p>I. C. LaCrosse</p>																			
<p>438-354 METALLURGICAL LITERATURE CLASSIFICATION</p>										<p>SEPTEMBER 1940</p>									
<p>10000 04</p>										<p>10000 04</p>									
<p>10000 04</p>										<p>10000 04</p>									



*Distribution of isotopes of hydrogen and oxygen during freezing of water.* R. V. Tala and K. P. Florenski (*Compt. rend. Acad. Sci. U.R.S.S.*, 1941, **22**, 199—202).—Initial stages of freezing of  $H_2O$  give ice containing increased  $[^{18}O]$  and decreased  $[D]$ ; as freezing progresses the ice approximates in composition to the water. The max. observed separation, in density units referred to liquid water, is  $\Delta d_{18O} = +14.6\gamma$  and  $\Delta d_D = -8.0\gamma$ , after freezing 4.5%. The effect is obscured by stirring, but is found in natural ice.

L. J. J.

*[Handwritten signature]*

*R1*

**Isotopic composition of oxygen of different origin.** A. P. Vinogradov and R. V. Teis (*Compt. rend. Acad. Sci. U.R.S.S.*, 1941, **23**, 480—483).—Determinations of the  $\delta$  of H<sub>2</sub>O synthesised from H<sub>2</sub> (produced by the action of HCl on Zn) and O<sub>2</sub> from various sources indicate that O from the atm. is heavier than that from H<sub>2</sub>O whilst that evolved under [the action of light by *Helodea canadensis* growing in tap-H<sub>2</sub>O containing 0.1% of NaHCO<sub>3</sub>] is intermediate. The O in CO<sub>2</sub> produced by the action of HCl on NaHCO<sub>3</sub> is heavier than atm. O. J. W. S.

ASD S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

TEIS, R. V.

Isotopic composition of the waters of Upper  
Svanetian glaciers. R. V. Teis and K. P. Florenskiy  
(W.I. Vernadsky Lab. Geochem. Problems, Acad. Sci.  
U.S.S.R.). Compt. rend. acad. sci. U.R.S.S. 47,  
640-1; Doklady Akad. Nauk S.S.S.R. 47, 666-7 (1945)  
D content of glacier water is lower than that of  
Ingur River water; heavy-O content is equal or  
somewhat higher. Isotopic compa. of glacier/ water  
and river water in Upper Svanetia is similar.  
Marjorie Hooker

LIST AND 1ST CROSS																										2ND AND 4TH CROSS																									
PROCESSING AND PROPERTY INDEX																																																			
<p>Isotope composition of mineral waters. R. V. Tris. <i>Compt. rend. acad. sci. U.R.S.S.</i> 25, 135-7(1946)(in English).—Previous d. detns. of 35 natural waters showed the least mineralized to have the lowest d., which resulted from soil layers adsorbing D during percolation. Isotopic exchange has also been considered responsible for d. decrease, by substitution of light H for D or O exchange. Waters showing reduced d. have thus been assumed to have a vadose origin. Investigation by the author of carbonate mineral waters indicates a const. concn. of the <math>O^{18}</math> isotope irrespective of the <math>CO_2</math> content. M. Hooker</p>																																																			
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			
1ST AND 2ND CROSS																										3RD AND 4TH CROSS																									
1ST AND 2ND CROSS																										3RD AND 4TH CROSS																									

**CA**

**2**

Variation in deuterium concentration in the process of melting of ice. H. V. Irsin (Acad. Sci. U.S.S.R., Leningrad). *Compt. Rend. Acad. Sci. U.R.S.S.* 83, 829-32 (1960) (in English); cf. C.A.B. 35, 2379<sup>a</sup>.—The δ and α of cleaned samples of snow from the Moscow and Yaroslavl provinces and of ice samples were measured to det. the change of D concn. during melting. The D content of the water formed upon melting depended on the stage of melting, being low at first and increasing as melting continued. The lower D content in the first stages persisted for a longer time if the melting takes place in contact with the water formed. The increase in D concn. in the solid phase proceeds at a much faster rate than would be expected from the ratio of the initial and residual amts. of ice.  
Ernst M. Colin

TEYS, R. V., KHARINA, Z. V., BALANDIN, A. A.

"Isotopic Exchange in the Hydrogenation of Benzene with Deuterium over Platinum and Chromic Oxide Catalysts," A. A. Balandin, Z. V. Kharina  
"Compt Rend Acad Sci Urss" Vol 53, 1946, pp715-18

During the hydrogenation of benzene over a Pt-on-asbestos catalyst and over  $\text{Cr}_2\text{O}_3$ , it was observed that exchange with D occurred. Under the conditions of the experiment, i.e., at  $100^\circ$  with the Pt catalyst and with a H-benzene mole ratio of 4, complete hydrogenation was achieved, but with the  $\text{Cr}_2\text{O}_3$  catalyst at  $160^\circ$  and with other conditions the same, the degree of hydrogenation was about 8-12%, whereas the degree of isotopic exchange amounted to as much as 74%.

SO: W-336, 31 Mar. 48.

TEYS, R. V.

VINOGRADOV, A. P. and R. V. TEYS  
"New Determination of the Isotopic Composition of Oxygen in Photosynthesis,"

Dok. AN, 56, No. 1, 1947.

PA 36/47100

TEYS, R. V.

USSR/Nuclear Physics - Isotopes  
Chemistry - Ice, Analysis

Sep 48

"Isotopic State of Fossil Ice," R. V. Teyss, Inst of  
Geochem and Anal Chem imeni V. I. Vernadskiy, Acad  
Sci USSR, 3 pp

"Dok Ak Nauk SSSR" Vol LXII, No 3

Isotopic analysis of a number of samples of fossil  
ice of various ages and conditions of formation.  
Table of results gives: sample source, sample  
description, and condensation (total due to D<sub>2</sub>O  
and O<sup>18</sup>). Submitted by Acad D. S. Belyankin,  
29 Jul 48.

36/49T68



1ST AND 2ND ORDERS		3RD AND 4TH ORDERS	
TE/S, R-V.		6	
N		6394	
		Isotopic Composition of Oxygen in Carbonates and Its Dependence on the Temperature. R. V. Tef. Doklady Akad. Nauk S.S.S.R. 72, 73-6(1950) May 1 (in Russian).	
		<p>When carbonates crystallize from water, oxygen isotopes are distributed in such a way that the crystals become enriched in heavy O isotopes; this enrichment decreases with growing crystallization temperature. Regularities that have so far been observed permitted, e.g., an estimation of former climatic conditions by using an isotopic O analysis of Cretaceous Belemnite shells (Urey, Science 100, 489(1948)). In this work it was attempted to extend the data so as to comprise, besides crystallizations from surface waters (at about 25°C), those from hydrothermal solutions and from magmatic fluids. The first class (stalactites, lake and marine limestones) showed heavy-oxygen enrichments, with respect to river water, of 6.8 to 8.1 ‰; in the second class (calcites and dolomites from hot hydrothermal springs) the variations</p> <p>were 2.3 to 3.0 ‰; in the third group (two calcites of magmatic origin) the enrichments were 5.6 and 6.0 ‰. The disagreement between the latter result and the foregoing temperature-dependence rule points to the special conditions of carbonate formation from the magma.</p>	
ASA-51A METALLURGICAL LITERATURE CLASSIFICATION			
FROM SYMBOLIC		FROM SYMBOLIC	
1ST AND 2ND ORDERS		3RD AND 4TH ORDERS	
1ST AND 2ND ORDERS		3RD AND 4TH ORDERS	

CA 114

Isotopic composition of the oxygen of organic compounds of vegetable origin. R. V. Teis. *Doklady Akad. Nauk S.S.S.R.* 72, 351-3 (1950). The isotopic compn. of O was detd. for samples of glucose and for cellulose. The glucose samples were a lab. prepn. and corn glucose and the cellulose sample was absorbent cotton. The samples were treated with pure H which reacted with the O to form water. The water which was formed was contaminated by volatile compds. formed in the dry distn. Therefore, it was subjected to electrolysis in an acid medium and the O which was collected was reacted with H to form water. The isotopic compn. was detd. by detg. the flotation temp. for a quartz float. If Vinogradov's scheme for the process of photosynthesis viz.,  $\text{CO}_2 + 2 \text{H}_2\text{O} = \text{CH}_2\text{O} + \text{H}_2\text{O} + \text{O}_2$  (C.I. 42, 1822f) is taken as the most probable, then all of the heavy O of  $\text{CO}_2$  should remain in the org. substance of the plant. Therefore the isotopic compn. should be close to that of the O in  $\text{CO}_2$ . The exptl. data concides with this conclusion. J. Rovnar Leach

TEYS, R.V.

✓ The isotopic composition of waters of crystallization. R. V. Tels. *Doklady Akad. Nauk S.S.S.R.* 99, 585-8 (1954). — 62  
The double-exchange tendency of  $O^{18}$  isotope in recrystn. of  $Na_2CO_3 \cdot 10H_2O$ ,  $BaCl_2 \cdot 2H_2O$ ,  $Na_2SO_4 \cdot 10H_2O$ , and  $CaSO_4 \cdot 2H_2O$  was studied. Most hydrates were obtained by recrystg. the anhyd. salts from waters contg. varying aints. of the  $O^{18}$  isotope, except the  $CaSO_4 \cdot H_2O$  which was formed by combining dil. solns. of  $CaCl_2$  and  $Na_2SO_4$ . The  $O$ -isotope content of the crystals was detd., and was found to be higher than in the water from which the salts were crystd., whereas the D content was lower. As a confirmation, the  $O^{18}$  in the mother liquor was found to be higher than in the original water used, and the D concn. was lower.  
W. M. Sternberg

**THYS, R.V.**

Isotope content in the water of crystallization. Dokl. AN SSSR 99  
no.4:585-588 D '54. (MLRA 8:2)

1. Institut geokhimii i analiticheskoy khimii im. V.I.Vernadskogo.  
Akademii nauk SSSR. Predstavleno akademikom A.P.Vinogradovym.  
(Crystallization, Water of) (Isotopes)

TEYS, R.V.

AID P - 1567

Subject : USSR/Chemistry

Card 1/1 Pub.119 - 2/5

Author : TeyS, R. V. (Moscow)

Title : Method of isotopic paleothermometry

Periodical : Usp. khim., 24, no.2, 163-180, 1955

Abstract : Conditions necessary for application of the method of isotopic paleothermometry are reviewed. Examples for measuring paleotemperatures are given. Ten tables, 4 diagrams, 31 references (11 Russian: 1939-54)

Institution: None

Submitted : No date

TEYS, R.V.

USSR/ Cosmochemistry. Geochemistry. Hydrochemistry

D.

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11548

Author : Tey R.V.

Title : Isotope Composition of the Oxygen of Natural Sulfates

Orig Pub : Geokhimiya, 1956, No 3, 28-32

Abstract : A study of isotope exchange of oxygen in aqueous solutions of sulfates in neutral, acid and alkaline media, at different temperature. Magnitude of exchange was determined from changes in concentration of  $O^{18}$ , in enriched water, before and after the experiment, from increase in  $O^{18}$  concentration in sulfate after exchange with enriched water and after exchange of enriched sulfate with ordinary water. Values of  $\Delta O^{18}$  (in %): for sedimentary sulfates (5 samples) 1.9 - 3.3; sulfates of volcanic origin (3 samples) 1.3 - 4.4; hydrothermal barite 2.3. Determined were exchange half-periods, isosteres are presented of the exchange of  $Na_2SO_4$  with water and  $Na_2SO_4 + CO_2$  and the isotherm of the exchange of Ca and Na sulfates with Gaseous  $CO_2$  at  $775^\circ$ .

Card 1/2

INST. Geochem. and ANAL. Chem. in VI. VERNADSKII, AS USSR  
Moscow

USSR/ Cosmochemistry. Geochemistry. Hydrochemistry

D.

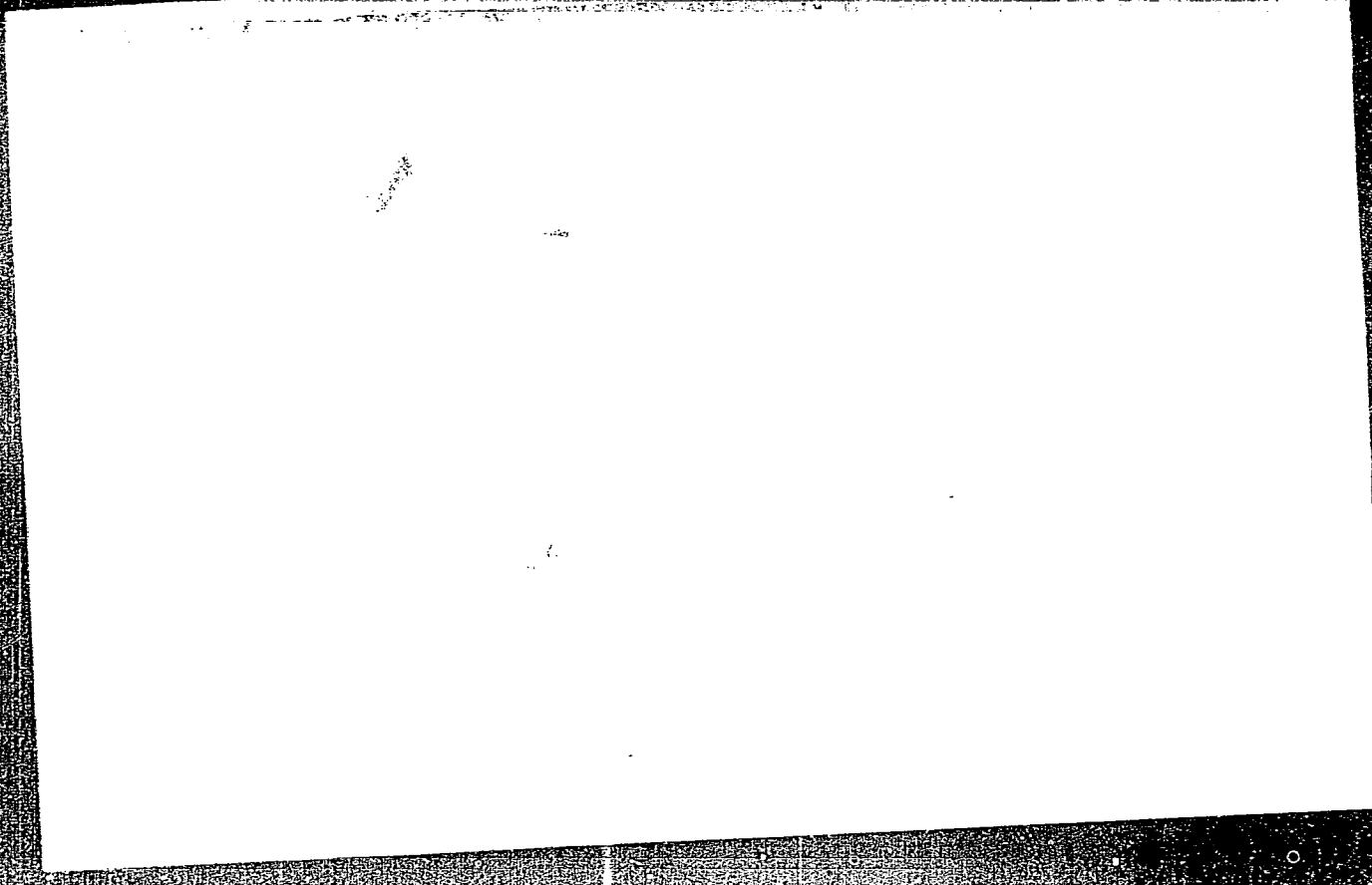
Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11548

The author is of the opinion that isotope composition of oxygen of sulfates that separate from sea water provides no information concerning the isotope composition of sea water at the time of separation of the mineral. Isotope composition of the oxygen of natural sulfates reaches an equilibrium with oxygen of sea water within 4 -5 centuries. Heterogeneous exchange of sulfates with dry gaseous carbon dioxide proceeds considerably slower than in solutions.

Card 2/2

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001755520005-1



APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001755520005-1"



AUTHOR: None Given 5-6-14/42

TITLE: Chronicle of the Activity of the Paleontological Section  
(Khronika deyatel'nosti paleontologicheskoy seksii)

PERIODICAL: Byulleten' Moskovskogo Obshchestva Ispytateley Prirody, Otdel  
Geologicheskoy, 1957, # 6, pp 127-128 (USSR)

ABSTRACT: The following reports were delivered in the Paleontological  
Section from 19 April to 10 May 1957:  
I.A. Mikhaylova on "Systematization of Paragoplitides (?)";  
V.V. Drushchits on "Paleontological Basis for the Stratigraphy  
of the Lower-Cretaceous Deposits in the Crimea"; B.T. Yanin  
on " Lower-Cretaceous Trigonias of the Crimea"; R.V. Teys, D.P.  
Naydin and M.S. Chupakhin on "Determination of Paleotemperatures  
by the Isotopic Composition of Oxygen in Organogenous Calcite";  
and R.F. Gekker, A.I. Osipova and A.D. Slyusareva on the  
"Kazan' Sea of the Russian Plateau and Its Fauna".

AVAILABLE: Library of Congress

Card 1/1

TEYS, R.V.  
 AUTHORS: Teys, R.V., Naydin, D. P., Chupakhin, M.S. 5-6-41/42

TITLE: Determination of Paleotemperatures by the Isotopic Composition of Oxygen in Organogenous Calcite (Opredeleniye paleotemperatur po izotopnomu sostavu kisloroda organogennogo kal'tsita)

PERIODICAL: Byulleten' Moskovskogo Obshchestva Ispytateley Prirody, Otdel Geologicheskiiy, 1957, # 6, p 153 (USSR)

ABSTRACT: The method of isotopic paleothermometry is based on the equilibrium distribution of the heavy isotope of oxygen  $O^{18}$  between the oxygen of water and  $CaCO_3$  precipitated from the water. This distribution depends on the temperature of precipitation. Many characteristics of the paleobiology of fossil organisms (life duration, surrounding medium, etc) can be cleared up by making use of temperature "records" in carbonates.

The authors elaborated an experimental temperature scale which was obtained by settling  $CaCO_3$  out of  $Ca(HCO_3)_2$  solutions in a thermostat at various temperatures. Comparing with this scale, several dozens of fossil shells from the Cretaceous deposits of the Russian plateau and Crimea were investigated. The most reliable results were obtained from belemnites whose calcite preserves the initial isotopic

Card 1/2

5-6-41/42

Determination of Paleotemperatures by the Isotopic Composition of Oxygen  
in Organogenous Calcite

composition of oxygen without alterations. The authors  
present some temperature values obtained by this method  
by using belemnites, oysters and other fossils from various  
stratigraphic formations.

AVAILABLE: Library of Congress

Card 2/2

TEYS, R. V.

USSR/Chemistry - Isotopes

11 Jul 51

"Isotope Method of Determining Temperatures of the Formation of Carbonate Minerals," R. V. Teyss, Inst of Geochem and Analyt Chem imeni V. I. Vernadskiy, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXIX, No 2, pp 291-294

Describes detn by oxygen by isotope method of temp of formation of natural calcium carbonate deposits. An empirical scale established by pptg  $\text{CaCO}_3$  in the laboratory is used for this purpose. The values on this scale agree very well with those obtained by N. P. Yermakov's bubble method.

214713

TEYS, R.V.

USSR/Geology - Geochemistry

Card 1/1 Pub. 22 - 26/45

Authors : Tey, R. V.

Title : The isotopic composition of crystallization water

Periodical : Dok. AN SSSR 99/4, 585-588, Dec 1, 1954

Abstract : Data regarding the isotopic composition of crystallization water are presented. The effect of D<sub>2</sub> on the various properties of crystal hydrates and the O<sup>18</sup> concentration in crystallization water of solid crystal hydrates, were investigated and the results obtained are given in tables. Four references: 2-USSR; 1-German and 1-Swiss (1938-1954). Tables; graphs.

Institution : Academy of Sciences USSR, The V. I. Verndskiy Institute of Geochemistry and Analytical Chemistry

Presented by: Academician A. P. Vinogradov, September 28, 1954

*Tays, R. V.*

USSR/ Chemistry--Atomic structure

Card 1/1            Pub. 86--38/39

Authors        :    Tays, R. V.

Title           :    Heavy water

Periodical    :    Priroda 44/1, 127--128, Jan 1955

Abstract       :    The nature of heavy water is explained, the extent to which it is found in nature is stated, its characteristics including its boiling and melting points are described, and the role it plays in natural functions as well as its use in the laboratory is pointed out.

Institution    :    .....

Submitted      :    .....

TEYS, R.V.

USSR A

Isotopic method for the determination of the formation temperatures of carbonate minerals. R. V. Tels. *Doklady Akad. Nauk S.S.S.R.* 79, 291-4 (1951); cf. McCrea, *C.A.* 44, 10395L.—The investigation of the isotopic compn. of O in carbonates which were pptd. from hydrothermal solns. in nature is started with a study of the calcite deposits of hot wells of Pyatigorsk (N. Caucasus) at different temps. Further, exptl. pptns. were made from  $\text{CO}_2$ -supersatd. solns. of  $\text{CaCO}_3$  in the lab., at 86.5° and 10°. The isotopic compn. of O in the pptd. carbonates is slightly different from that of O from water in which the solns. have been made. This difference in the contents in  $\text{O}^{18}$  (in  $\gamma$ ) is detd. by d. measurements with an accuracy of 0.07 to 0.20  $\gamma$ , and corresponds to an accuracy of the corresponding formation temps. of 4° to 5°. Some subterraneous waters of wells from Tadzhikistan and Pyatigorsk were examd. for their isotopic compn.; they are somewhat different ( $\Delta\gamma = +3.7$  to 0) with increasing temp. of the wells. Four calcites from Sikhote-Alin (Tetyukhe) were also examd. by the bubble inclusion method of Ermakov; the formation temps. agree with those derived from the isotopic detns. which fit a characteristic  $\Delta\gamma$ /temp. curve. The  $\Delta\gamma$  values are for hydrothermal formations neg. (0 to -3.20  $\gamma$  are measured), and correspond in this range to "isotopic temps." from 115° to 300°, also in very good agreement with temp. esths. from the paragenetic conditions of the deposits. W. F.

62

TEYS, R.V.; NAYDIN, D.P.; CHUPAKHIN, M.S.

Determining paleotemperatures from the isotone composition of oxygen  
of organogenous calcite. Biul. MOIP. Otd. geol. 32 no.6:153

M-D '57.

(MIRA 11:4)

(Earth temperature) (Calcite) (Oxygen--Isotopes)



TEYS, R.V., doktor khim.nauk

Heavy oxygen in nature. Priroda 50 no.4:31-34 Ap '61.

(Oxygen--Isotopes)

(MIRA 14:4)

TEYS, R.V., Doc Chem Sci—(diss) "The role of water in the distribution of isotopes of oxygen and hydrogen in nature." Leningrad, Publishing House of the Acad Sci USSR., 1958. 22 pp with graphs. (Acad Sci USSR. Inst of Geochemistry and Analytical Chemistry in V.I. Vernadskiy), 200 copies (K1,49-58,120)

5(0)

AUTHORS:

Tey, R. V., Gromova, T. S.  
Kochetkova, S. N.

SOV/20-122-6-28/49

TITLE:

Isotopic Composition of Natural Phosphates (Izotopnyy sostav prirodnikh fosfatov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 6, pp 1057 - 1060 (USSR)

ABSTRACT:

The method of isotopic paleothermometry (Refs 1 - 3) is the most important application of isotopic analysis to the solution of geochemical problems. This method is based on the dependence of the distribution of the heavy oxygen isotope between the oxygen of water and the mineral on temperature, that means it is based on the isotopic exchange between these two components. The oceans are an immense reservoir of oxygen that hardly changes its isotopic composition in the course of geological time. Therefore, its isotopic composition can be regarded as constant and equal to a certain average value. However, this condition of a constant water background (vodnyy fon) is not always and not everywhere complied with. Therefore, the possibilities of isotopic paleothermometry are limited by insufficient

Card 1/4

Isotopic Composition of Natural Phosphates

SOV/20-122-6-28/49

information on the character and the causes for the fluctuations in the isotopic composition of sea water. At present only the carbonate paleothermometry is elaborated, as carbonates in the solution exchange their oxygen quickly enough with that of water. If it were possible to find any reaction mechanism that would prompt the oxygen exchange of another mineral with the oxygen of water, two equations with two unknown quantities could be obtained; the precipitation temperature and the isotopic composition of the aqueous phase would be the unknown quantities here. The solution of these equations with respect to both unknown quantities would make it unnecessary to know the isotopic composition of the oxygen of water, which has been necessary up to now. The authors succeeded in ascertaining that the oxygen of the sulfate is exchanged very slowly with the oxygen of water (Ref 4). Thus sulfates cannot serve as mineral thermometers. A phosphate temperature scale was then suggested (Refs 2, 3, 5). The phosphates exchange their oxygen with water even more slowly than sulfates. The heterogeneous exchange with carbonic acid was investigated with two samples of apatite (from the Lake Baikal and from the Khibiny). The velocity

Card 2/4

## Isotopic Composition of Natural Phosphates

SOV/20-122-6-28/49

constants and the half-periods of the exchange at 700, 900 and 1100° are given in table 2. Figure 1 shows the isothermal lines of these measurements, whereas figure 2 gives the isotherms. By extrapolation of these data into the range of normal temperatures (20°),  $1.3 \cdot 10^4$  hours is obtained for the half-period of the exchange. The isotopic composition of natural phosphates has never been investigated. The authors used apatites and phosphorites for this purpose. The oxygen of these substances has proved to be lighter than that of river water. From table 3 it can be seen that apatite contains less  $O^{18}$  than river water. Contrary to expectations, the content of  $O^{18}$  in the phosphorites of podolite was lower than that of river water. It can be seen from the data of the authors that there is a difference between the relations between the isotopic composition of the oxygen of water, the sulfates and the phosphates. Natural sulfates mostly have a composition approaching the equilibrium with the oxygen of sea water (Ref 4), whereas the oxygen of natural phosphates is considerably different. There are 2 figures, 3 tables, and 9 references, 5 of which are Soviet.

Card 3/4

Isotopic Composition of Natural Phosphates

SOV/20-122-6-28/49

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I.  
Vernadskogo Akademii nauk SSSR (Institute of Geochemistry  
and Analytical Chemistry imeni V. I. Vernadskiy of the Academy  
of Sciences, USSR)

PRESENTED: June 3, 1958, by A. P. Vinogradov, ~~Academician~~

SUBMITTED: May 28, 1958

Card 4/4

7-78  
TEYS, Ye.

Shortcomings in training road maintenance technicians. Avt.dor.  
17 no.1:32 J1-Ag'54. (MIRA 8:10)  
(Road construction--Study and teaching)

TEYS, Ye.G., ingh.

Pay more attention to field work for students. Avt.dor. 21 no.9:25  
S '58. (MIRA 11:11)  
(Road construction workers) (Field work (Educational method))



RICNY, Drahoslav; SUMBERA, Jan; TEYSCHL ML, Otakar

Streptokinase skin test in diagnosis of rheumatism in children.  
Cesk. pediat. 12 no.8:677-681 5 Aug 57.

1. II detska klinika Masarykovy university v Brne, prednosta akademik  
prof. Dr. Otakar Teychl Biochemicke oddeleni krajske detske nemocnice  
v Brne, prednosta prim. Dr Otakar Teychl ml.

(RHEUMATISM, in inf. & child,

diag., streptokinase skin test (Cz))

(STREPTODORNASE AND STREPTOKINASE

streptokinase skin test in diag. of rheum. in child. (Cz))

TEYSCHL, O.

Serologic studies in children treated with streptomycin.  
Pediat. listy 5 no. 4:196-198 July-Aug. 1950.(CML 20:1)

1. Of the Children Clinic of the Masaryk University in Brno.

TEYSCHL, O.

Some medical problems in the countries of Eastern Asia.  
Cesk. pediat. 12 no.2:154-165 Feb 57.

(MEDICINE  
in E. Asia (Cs))

MACKU, M.; KLUSKA, V.; TEYSCHL, O.

Further experiences in therapy of the scarlet fever. Lek. listy, Brno  
8 no.13:306-309 1 July 1953. (GLML 25:1)

1. Of the Infectious Department (Head--Docent V. Kluska, M.D.) of Pediatric Hospital, Brno. 2. Penicillin and sulfonamides.

VITEK, Bohumil; TEYSCHIL, Otakar

Leukocytosis after intradermal application of streptokinase in children with rheumatic fever. Cesk.pediat. 15 no.9:806-811 S '60.

1. II detska klinika v Brne, prednosta akademik Otakar Teychl  
Biochemicke oddeleni KDN v Brne, prednosta prim. dr. Otakar  
Teychl.

(RHEUMATIC FEVER in infancy & childhood)  
(STREPTODORNASE AND STREPTOKINASE pharmacol.)  
(LEUKOCYTOSIS etiol.)

TEYSCHL, Otakar, Akademik

Toxinfectious allergies in children. Cas. lek. cesk. 97 no.17:529-535  
25 Apr 58.

1. Adres autora: Brno-Cerna Pole.  
(ALLERGY, in inf. & child  
toxinfect. allergy (Cz))

TEYSCHL, Ot., Akademik (Brno, Cerna Pole)

Protection of normal development of the new generation. Cas. lek. cesk.  
97 no.23-24:745-746 6 June 58.

1. II. detska klinika, Brno, prednosta akademik Otakar Teychl.  
(CHILD WELFARE,  
in Czech. (Cz))

TEYSCHL, O.

Physical education of new-born. Lek. listy, Brno 8 no.10:221-225  
15 May 1953. (CJML 24:5)



CHLUPACKOVA, V.;RICNY, D.;SUMBERA, J.;TEYSCHL, O.

Five suggestions for the improvement of pediatric therapy. Cesk. nemoc.  
18 no.6:130-133 Aug 1950. (CJML 23:2)

TEYSCHL, Otakar, Akademik

Tasks of pediatrics in Czechoslovakia. Cas. lek. cesk. 95 no.38:  
1037-1042 21 Sept 56.

1. Brno, detska klinika.  
(PEDIATRICS,  
in Czech. (Cs))

TEYSCHL, Otakar; RICNY, Drahoslav; SRACKOVA, Danuse; KOCOURKOVA, Alena;  
VITEK, Bohumil

Staphylococcal infections in preschool and school children. Cas.lek.  
cesk 100 no.31:961-964 4 Ag '61.

1. II detska klinika lebarske fakulty v Brne, prednosta akademik  
Otakar Tey Schl.

(STAPHYLOCOCCAL INFECTIONS in inf & child)

STANEK, Miroslav, inz.; TEYSSLER, Jiri, inz., dr.; FISCHER, Jiri, inz.;  
SPITALNIK, inz.; STEKL, inz.; NAVRATIL, Miroslav, inz., dr.;  
IBLER, Jaroslav, inz., dr.; KARAS, Frantisek, prof., inz., dr., ScDr.;  
CESKA, inz.; HOFFMANN, V., inz.; CHALUPSKY, Josef, inz.;  
FAPSO, O., inz.; ROCEK, Jaroslav, inz., ScC.; SVEJDA, J., inz.;  
LENCZ, Imrich, inz.; RAJDA, Frantisek; BALOS, Jaroslav, inz.;  
MACHA, Jiri, inz.

Third National Conference on the Results of Research and  
Development of Power Installations. Energetika Cz:Suppl.:  
Energetika 13 no.6:1-~~24~~ '63.

TEYSSLER, Jiri, inz., dr.

Notes on the article "Television and power engineering dispatching" by E.S.Hokes. Energetika Cz 11 no.9:473 S '61.

TEYSSLER, Jiri, inz., dr.

Experimental determining of the economic effectiveness of steam boiler automation. Energetika 12 no.1:10-13 Ja '62.

1. Organizace pro racionalizaci energetickych zavodu n.p., Praha.

LOKTIONOVA, N.A.; KULAKOV, V.I.; KRIVENKO, R.A.; TEYTEL', I.L.

Reducing residual stresses in aluminum alloy ingots. Metalloved.  
i term. obr. met. no.11:46-47 N '63. (MIRA 16:11)

SUMBERA, Doc., Dr.; TMYSCHL, O., Akademik

~~Sumera, Doc., Dr.; Tmyschl, O., Akademik~~  
Kaglusal as a new dietetic preparation for the treatment of  
diarrhea. Cesk. pediat. 11 no.4:260-266 Apr 56.

1. II. Klinika detskych nemoci Masarykovy university v Brne,  
Cerna Pole, prednosta: Prof. Dr. Otakar Teychl.

(DIARRHEA, in infant and child,  
ther., dietetic method with dried carrot, sugar,  
starch & salt mixture. (Cz))

(DIETS, in various diseases,  
diarrhea in inf., dried carrot, sugar, starch &  
salt mixture. (Cz))



KUCERA, M.; TEYSCHL, O.

Relation of the origin and course of otitis in children to the reactivity of the organism. Cesk. otolar. 8 no.4:186-188 Aug 59.

1. Oddelení pro nemoci uší, nosní a krční a oddelení biochemické Krajské dětské nemocnice v Brně, primář MUDr. M. Kucera, primář MUDr. O. Teyšchl.

(OTITIS MEDIA, in inf. & child)

TEYSCHL, O.;TOMAN, M.

Project for pediatric health centers in new socialistic centers  
in Ostrava. Pediat. listy, Praha 7 no. 3:131-133 May-June 1952.  
(CJML 22:4)

TEYSCHI, O., prof. Dr

Problem of pneumonia in children. Pediat. listy, Praha 9 no. 4:  
194-199 June-Aug 54.

1. Detska klinika, Brno.  
(PNEUMONIA, in infant and child.)

TEYSCHL, O.

MACKU, Milos, MUDr; TEYSCHL, Otokar, ml., MUDr

Lungs in certain viral diseases. Pediat. listy, Praha 9 no.4:  
211-214 June-Aug 54.

1. Z infekcniho oddeleni Krajske detske nemocnice v Brne, prednosta  
doc. MUDr Vladimir Kluska.

(LUNGS, in various diseases,  
measles & polio.)

(MEASLES, pathology,  
lungs)

(POLIOMYELITIS, pathology,  
lungs)

TEYSCHL, Otokar, Prof. Dr; MUZIK, Josef, Dr

Wanted and unwanted children. Neur. & psychiat. česk. 17 no.3:  
186-190 Je '54.

(CHILD,

\*wanted & unwanted)

TEYSOHL O. Z. brnenske detske kliniky. Dusevni vychova novorozencu a kojencu  
Psychological education of newborns and children Pediatricke listy, Prague 1949,  
4/6 (233-239)

The newborn period is very important for the future psychological development and psychic pattern of the child, because for instance the crying of the newborn is not only the first means of social communication but very often the first social conflict of the child with his environment. Crying is the first basic reflex, which becomes corticalized very soon after birth, but many infants, instead of being the psychological objects who should be educated, try to become the psychological subjects who try to educate and tyrannize their own mothers, misusing the crying for their pleasure even in moments when no help is needed. Cephalocaudal development of conditioned reflexes explains why the ontologically younges and most highly organized reflexes such as micturition, defaecation, speech and nocturnal sleep easily become disorganized under the influence of an emotional strain or when the child is not properly educated. Therefore in all disturbances of these conditioned reflexes in otherwise neurologically healthy children some error of education or inadequate approach to the child should be suspected

Author (VII, 8)

SO: Neurology & Psychiatry Section VIII, Vol 3, No 7-12

TEYSCHL O. Priznaky, prubeh a diferencialni diagnosa detske obrny Symptomatology course and differential diagnosis of poliomyelitis Casopis lekaru ceskych, Prague 1949, 88/44(1281-1286)

A concise, but instructive survey for the general practitioner of the symptomatology, course and differential diagnosis of meningeal, spinal and especially the initial symptoms of the bulbar stage of poliomyelitis.

Author (XX,8)

So: Neurology & Psychiatry Section VIII, Vol. 3, No. 7-12

TEYSCHL, O., SUMERA, J.

Treatment of alimentary toxicosis by means of subcutaneous infusions,  
Pediat. listy 5:3, May-June 50. p. 131-8

1. Of the Children's Clinic of Masaryk University in Brno.

CLML 19, 5, Nov., 1950



TEYSCHL, G. Z.  
234

Brnenske detske Klin. M.U. Serologicka studie u deti lecenych streptomycinom A  
serological study made in children treated with streptomycin Pediat. Listy 1950,  
5/4 (196-198)

As during treatment of tb meningitis with streptomycin a great number of M. tuberculosis  
are killed in the CSF of the patient, it was tried without success to find any  
antigenic qualities in this fluid, using the principle of the c.f.t. The amount  
of complement in the blood of the patients is higher than in their CSF.

Bloch - Amsterdam (XX, 4,8)

SO: EXCERPTA MEDICA, Vol. 5, No. 1, Sec. VIII, Jan. 1952

TEYSCHL, O.

Congenital principles in the law of mental development of child. Lek.  
listy, Brno 6 no.24:741-745 15 Dec 51. (CLML 21:5)

TEYSCHL, Otakar, akademik

Mental education of newborn infants. Cesk.pediat. 10 no.3:186-190  
Apr 55.

1. II. detska klinika, Brno.  
(INFANTS, NEWBORN,  
mental train., psychol. aspects)

SRACKOVA, D.; TEYSCHL, O.; TUMA, A.

Value of the determination of bilirubin fractions in icterus  
neonatorum. Cesk. pediat. 20 no.10:849-854 O '65.

1. II. detska klinika lekarske fakulty University J.E. Purkyne  
v Brne (prednosta prof. dr. M. Toman) a Ustredni laborator  
Fakultni detske nemocnice v Brne (vedouci MUDr. O. Teyschl).

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TEYSINGER, Yaroslav

Polarographic method of determining lead in the blood and its clinical significance. Gig. i san., no.8:28-31 Ag '54. (MLRA 7:9)

1. Iz kliniki professional'nykh zabolevaniy i gigiyeny truda v Prage.  
(BLOOD,  
lead, polarography)  
(LEAD, in blood,  
determ., polarography)  
(POLAROGRAPHY,  
of lead in blood)

TEYSS

L.A.

LUSHCHIK, Ch.B.; ZAITOV, P.N.; KARK, V.Ya.; TEYSS, L.A.; YAEK, I.V.

Investigation of capture centers and kinetics of relaxation  
processes in alkali halide crystal phosphors. Izv. AN SSSR.  
Ser. fiz. 21 no.5:693-694 My '57. (MLRA 10:8)

1. Institut fiziki i astronomii Akademii nauk ESSR i Tartyskiy  
gosudarstvennyy universitet.  
(Luminescence--Congresses) (Phosphors--Congresses)

TEYSS L.A.

48-5-27/56

**SUBJECT:** USSR/Luminescence

**AUTHORS:** Lushchik, Ch.B., Zaitov, F.N., Kark, V.Ya., Teyss, L.A. and Yaek, I.V.

**TITLE:** Investigation of Capture Centers and Kinetics of Relaxation Processes in Alkali-Haloid Crystallophosphors (Issledovaniye tsentrov zakhvata i kinetiki relaksatsionnykh protsessov v shchelochno-galoidnykh kristallofosforakh.)

**PERIODICAL:** Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1957, Vol 21, #5, pp 693-694 (USSR)

**ABSTRACT:** The role of capture centers of various types in recombinational luminescence of alkali-haloid crystallophosphors was studied by several methods. Capture centers of a basic substance (F, F<sup>+</sup>, M, O<sub>2</sub><sup>P</sup>, etc) and capture centers created by bi-valence admixtures Ca<sup>2+</sup> and Sr<sup>2+</sup> are manifested in thermal de-luminescence and optical flash. The number and main characteristics of these centers can be considerably changed by means of plastic deformation and temperature treatment.

The effect of several activators (Ag<sup>+</sup>, Cu<sup>+</sup>, Tl<sup>+</sup>, Pb<sup>2+</sup> and Mn<sup>2+</sup>) on the spectrum of excited absorption, thermal de-luminescence and thermal decolorization of phosphors based on NaCl and KCl

Card 1/2



48-5-27/56

**TITLE:**

Investigation of Capture Centers and Kinetics of Relaxation Processes in Alkali-Haloid Crystallophosphors (Issledovaniye tsentrov zakhvata i kinetiki relaksatsionnykh protsessov v shohelochno-galoidnykh kristallofosforakh.)

was investigated. Especially many electrons are stored in phosphors with two activators (e.g., NaCl-Ca<sup>2+</sup>, Ag<sup>+</sup>). Activator capture centers are also manifested in recombinational luminescence, but their existence is often disguised by temperature quenching.

The distribution of electrons and holes over capture levels essentially changes during the processes of decay and flash.

This distribution, which is established in the result of a lasting excitation by X-rays, is not a temperature equilibrium one. The degree of filling capture levels by electrons can be as high as 30 %, but is not complete. The report was followed by a discussion. One Russian reference is cited.

**INSTITUTION:** Institute of Physics and Astronomy of the Estonian Academy of Sciences and Tartu State University.

**PRESENTED BY:**

**SUBMITTED:** No date indicated.

**AVAILABLE:** At the Library of Congress.

Card 2/2

S/C48/61/025/001/004/031  
B029/B067

9.6150 (also 1137, 1395)

AUTHORS: Klement, F. D., Teyss, L. A.

TITLE: Effect of isostructures on the spectra of activated mixed crystals

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25, no. 1, 1961, 28-30

TEXT: The authors studied the effect of isostructures on the emission spectrum of the KCl.KBr-Tl crystal phosphor. This phosphor was excited in various narrow regions within the excitation band of the activator. If the excitation band is a superposition of bands emitted by centers with different isostructures, the shape is bound to change or the maximum of the emission band is bound to be shifted. Fig. 1 shows the short-wave emission band of the 80 KCl.20 KBr- 0.05 Tl phosphor. In the case of a shift of the excitation range toward longer waves, the maximum of the emission band is also shifted toward longer waves in the same direction. The positions of the maxima of the emission band cover almost the entire region between the positions of these maxima in the corresponding single-component phosphors,

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Effect of isostructures on the spectra ....

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i.e., in the emission spectrum of a mixed crystal, the centers with different isostructures up to isostructures with 6 Br<sup>-</sup> ions are arranged round a Tl<sup>+</sup> ion. In spite of the low content of 20 mole% KBr, the phosphor emission spectrum is similar to that of isostructures with predominating bromine content, and the band corresponding to the pure KCl is lacking. According to the authors, Tl<sup>+</sup> is mainly contained in the isostructures with the highest number of heavy Br<sup>-</sup> ions. Also the second maximum of the ultraviolet emission bands characteristic of the KBr - Tl phosphor is lacking. Similar experiments were made with other ratios of the components KCl + KBr, as well as with phosphors of the type NH<sub>4</sub>Cl + NH<sub>4</sub>Br - Tl, in which mainly the same results were obtained. At a Br<sup>-</sup> content of 50 mole%, the position of the emission band does not depend any more on the region of excitation and agrees fully with the corresponding position in pure KBr. If, at a low KBr content, the activator concentration is increased, the filling of the isostructures with 5 Br<sup>-</sup> is bound to occur after the filling of the isostructures with 6 Br<sup>-</sup>, etc. The existence of isostructures of different composition in the mixed crystals makes it possible to explain various other phenomena (increased width of the absorption and

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Effect of isostructures on the spectra ....

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emission bands of the activator, as well as of the F-bands in mixed crystals). Ch. B. Lushchik mentioned the influence of isostructures on the width and shape of the peaks of thermal illumination. According to the authors, spectroscopic treatment of isostructures in mixed crystals with activators consisting of rare-earth elements is especially promising. This is the reproduction of a lecture read at the Ninth Conference on Luminescence (Crystal Phosphors), Kiev, June 20-25, 1960. There are 2 figures and 3 Soviet-bloc references.

Legend to Fig. 1: 1) 240 mμ; 2) 245 mμ; 3) 250 mμ; 4) 255 mμ; 5) 260 mμ; 6) 265 mμ exciting wavelength.

Legend to Fig. 2: emission spectra of 87 KCl . 13 KBr -Tl 1) 0.0005; 2) 0.019; 3) 0.2 mole% Tl

Card: 3/4

Effect of isostructures on the spectra...

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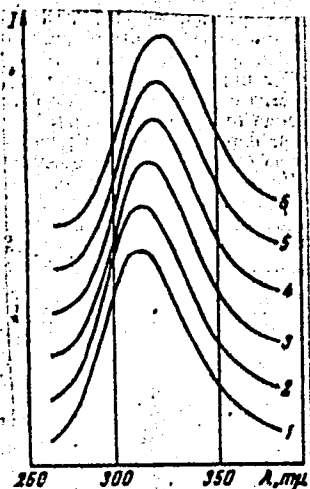


Fig 1

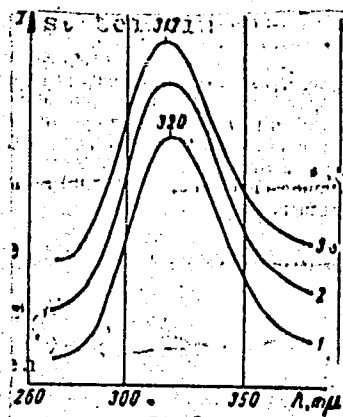


Fig 2

Card 4/4

S/613/61/000/014/004/019  
D207/D303

AUTHORS: Klement, F. D., and Teyss, L. A.

TITLE: The effect of "isostructures" on the spectra of activated mixed crystals

SOURCE: Akademiya nauk Estonskoy SSR. Institut fiziki i astronomii. Trudy. No. 14, 1961. Issledovaniya po lyuminestsii, 76-86

TEXT: The authors report an investigation and interpretation of changes in the luminescence emission spectra of (KBr + KCl):Tl and  $\text{NH}_4\text{Cl} + \text{NH}_4\text{Br}$ :Tl mixed phosphors with variation of the excitation wavelength. Mixed crystals exhibit the phenomenon of "isostructures" which are regions with different compositions. For example, in KBr + KCl there are seven possible isostructures with  $\text{K}^+$  ions surrounded by: (I) 6  $\text{Cl}^-$  ions, (II) 5  $\text{Cl}^-$  ions and 1  $\text{Br}^-$  ion, and so on down to (VII) 6  $\text{Br}^-$  ions. The authors suggest that every luminescence band of KBr + KCl crystals consists of several sub-bands, each of these sub-bands representing activator ions occupying sites

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The effect of "isostructures" ...

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in a particular isostructure. The sub-bands could not be distinguished in photoelectric observations of ultraviolet luminescence ( $\sim 310 \text{ m}\mu$ ) of  $(\text{KCl} + \text{KBr})\text{:Tl}$  by means of a  $\text{C}\phi\text{-4}$  (SF-4) spectrophotometer and a  $\phi\text{3Y-18}$  (FEU-18) photomultiplier. The sub-bands overlapped too much. The proof of the existence of the sub-bands came from reduction of the wavelength and intensity of the ultraviolet emission peak when the exciting wavelength ( $\lambda_e$ ) was varied from 265 to 240  $\text{m}\mu$ . The emission peak shifted with variation of  $\lambda_e$  because different values of  $\lambda_e$  excited activator centers in different isostructures. It was also found that Tl ions were concentrated preferentially in isostructures with the largest numbers of the heavier (Br) anion which is represented by the longer emission wavelengths. The emission peak wavelength was also reduced by an increase of the activator concentration from  $5 \times 10^{-4}$  to 0.2 mol.%. This was because at higher Tl concentrations more activator ions were available to occupy sites in isostructures for which Tl had less affinity, i.e. isostructures with more Cl ions, which are re-

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The effect of "isostructures" ...

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presented by the shorter emission wavelengths. Similar results were obtained for  $(\text{NH}_4\text{Cl} + \text{NH}_4\text{Br})_2\text{Tl}$  phosphors. Acknowledgment is made to N. Kristofel<sup>4</sup> and K. Rebane for communicating their formula on the number of isostructures in mixed crystals. There are 3 figures and 8 references: 5 Soviet-bloc and 3 non-Soviet-bloc. The reference to the English-language publication reads as follows: G. Durham and J. Hawkins, J. Chem. Phys., 19, 149 (1951).

SUBMITTED: July 16, 1960

Card 3/3



TEYSSLER, J.

Mobile equipment for gaugling operating differential manometers.

P. 523. (ENERGETIKA.) (Praha, Czechoslovakia) Vol. 7, No. 10, Oct. 1957

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, May 1958

**"APPROVED FOR RELEASE: 03/14/2001**

**CIA-RDP86-00513R001755520005-1**

**APPROVED FOR RELEASE: 03/14/2001**

**CIA-RDP86-00513R001755520005-1"**

TEYSSLER, J.; MACHALEK, M.; SPITALSKY, J.

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